SEQUENCE LISTING

<110> Commonwealth Scientific and Industrial Research Organisation
Grains Research and Development Corporation

<120> Antifungal peptides

<130> 501692

<150> AU 2004900938
<151> 2004-02-24

<160> 62

<170> PatentIn version 3.3

<210> 1
<211> 64
<212> PRT
<213> Galleria mellonella

<400> 1

Met Lys Phe Thr Gly Ile Phe Phe Ile Ile Met Ala Ile Ile Ala Leu
1 5 10 15

Phe Ile Gly Ser Asn Glu Ala Ala Pro Lys Val Asn Val Asn Ala Ile
20 25 30

Lys Lys Gly Gly Lys Ala Ile Gly Lys Gly Phe Lys Val Ile Ser Ala
35 40 45

Ala Ser Thr Ala His Asp Val Tyr Glu His Ile Lys Asn Arg Arg His
50 55 60

<210> 2
<211> 64
<212> PRT
<213> Galleria mellonella

<400> 2

Met Asn Phe Thr Gly Ile Phe Phe Met Ile Met Ala Ile Ile Ala Leu
1 5 10 15

Phe Ile Gly Ser Asn Glu Ala Ala Pro Lys Val Asn Val Asn Ala Ile
20 25 30

Lys Lys Gly Gly Lys Ala Ile Gly Lys Gly Phe Lys Val Ile Ser Ala
35 40 45

Ala Ser Thr Ala His Asp Val Tyr Glu His Ile Lys Asn Arg Arg His
50 55 60

<210> 3
<211> 68
<212> PRT
<213> Galleria mellonella

<400> 3

Met Arg Leu Ser Ile Ile Leu Val Val Val Met Met Val Met Ala Met
1 5 10 15

Phe Val Ser Ser Gly Asp Ala Ala Pro Gly Lys Ile Pro Val Lys Ala
20 25 30

Ile Lys Lys Gly Gly Gln Ile Ile Gly Lys Ala Leu Arg Gly Ile Asn
35 40 45

Ile Ala Ser Thr Ala His Asp Ile Ile Ser Gln Phe Lys Pro Lys Lys
50 55 60

Lys Lys Asn His
65

<210> 4
<211> 39
<212> PRT
<213> Galleria mellonella

<400> 4

Lys Val Asn Val Asn Ala Ile Lys Lys Gly Gly Lys Ala Ile Gly Lys
1 5 10 15

Gly Phe Lys Val Ile Ser Ala Ala Ser Thr Ala His Asp Val Tyr Glu
20 25 30

His Ile Lys Asn Arg Arg His
35

<210> 5
<211> 33
<212> PRT
<213> Galleria mellonella

<400> 5

Gly Gly Gln Ile Ile Gly Lys Ala Leu Arg Gly Ile Asn Ile Ala Ser
1 5 10 15

Thr Ala His Asp Ile Ile Ser Gln Phe Lys Pro Lys Lys Lys Lys Asn
20 25 30

His

<210> 6
<211> 342
<212> DNA
<213> Galleria mellonella

<400> 6
ctacgggtaa catctttatt agttatcgta aaataacaga ttgtagaaat gaagtttaca 60

ggaatattct tcataattat ggcgatcatt gccctcttta tagggtcaaa tgaagcggcg 120

cctaaagtca atgttaatgc cattaagaag ggaggaaagg ccataggaaa aggatttaaa 180

gtaatcagtg cggcgagtac agcgcatgac gtctatgaac acattaaaaa cagaaggcac 240

taataaaacc aaaaataatt atttatttta taaggtaatt ttaagacata taatgtatgt 300

tgcaaattat taagtgaaat aaaatataaa atatttttg tt 342

<210> 7
<211> 349
<212> DNA
<213> Galleria mellonella

<400> 7
gctttgtcta cgggtaacat ctttattagt tatcgtaaaa taacagattg tagaaatgaa 60

ttttacagga atattcttca tgattatggc gatcattgcc ctctttatag ggtcaaatga 120

agcggcgcct aaagtcaatg ttaatgccat taagaaggga ggaaaggcca taggaaaagg 180

atttaaagta atcagtgcgg cgagtacagc gcatgacgtc tatgaacaca ttaaaaacag 240

aaggcactaa tagaaccaaa aataatcatt tattttataa ggtaatttta agacatataa 300

tgaatgttgc aaattattaa gtggaataaa atataaaata ttttttgtt 349

<210> 8
<211> 420
<212> DNA
<213> Galleria mellonella

<400> 8
gttatttttt aaagatcaaa gcgtaattaa ttcattgtgc tgtgtctgaa aggaacaaaa 60

tgagattgtc cataatattg gtcgttgtga tgatggtgat ggctatgttt gtgagcagtg 120

gagatgcggc gcctggaaaa attcctgtga aagcgattaa aaaaggaggg caaattattg 180

gtaaagctct gcgtggaatc aatatagcga gtactgcaca tgacataatt agccagttca 240

aaccgaaaaa gaagaaaaac cattgagtat ttaataaaaa atcgttcaat aatatattta 300

ataataataa taaattttac ttatattact ataatataat taatattttt aattgtgcca 360

ttttagtttt ataaattata ttaagtatta attttataat taataaaaaa gcttaaatat 420

<210> 9
<211> 192
<212> DNA
<213> Galleria mellonella

<400> 9
atgaagttta caggaatatt cttcataatt atggcgatca ttgccctctt tatagggtca 60

aatgaagcgg cgcctaaagt caatgttaat gccattaaga agggaggaaa ggccatagga 120

aaaggattta aagtaatcag tgcggcgagt acagcgcatg acgtctatga acacattaaa 180

aacagaaggc ac 192

<210> 10
<211> 192
<212> DNA
<213> Galleria mellonella

<400> 10
atgaatttta caggaatatt cttcatgatt atggcgatca ttgccctctt tatagggtca 60

aatgaagcgg cgcctaaagt caatgttaat gccattaaga agggaggaaa ggccatagga 120

aaaggattta aagtaatcag tgcggcgagt acagcgcatg acgtctatga acacattaaa 180

aacagaaggc ac 192

<210> 11
<211> 204
<212> DNA
<213> Galleria mellonella

<400> 11
atgagattgt ccataatatt ggtcgttgtg atgatggtga tggctatgtt tgtgagcagt 60

ggagatgcgg cgcctggaaa aattcctgtg aaagcgatta aaaaaggagg gcaaattatt 120

ggtaaagctc tgcgtggaat caatatagcg agtactgcac atgacataat tagccagttc 180

aaaccgaaaa agaagaaaaa ccat 204

<210> 12
<211> 117
<212> DNA
<213> Galleria mellonella

<400> 12
aaagtcaatg ttaatgccat taagaaggga ggaaaggcca taggaaaagg atttaaagta 60

atcagtgcgg cgagtacagc gcatgacgtc tatgaacaca ttaaaaacag aaggcac 117

<210> 13
<211> 99
<212> DNA
<213> Galleria mellonella

<400> 13
ggagggcaaa ttattggtaa agctctgcgt ggaatcaata tagcgagtac tgcacatgac 60

ataattagcc agttcaaacc gaaaaagaag aaaaaccat 99

<210> 14
<211> 67
<212> PRT
<213> Spodoptera litura

<400> 14

Met Lys Leu Thr Lys Val Phe Val Ile Leu Ile Val Val Val Ala Leu
1 5 10 15

Leu Val Pro Ser Glu Ala Ala Pro Gly Lys Ile Pro Val Lys Ala Ile
20 25 30

Lys Lys Ala Gly Ala Ala Ile Gly Lys Gly Leu Arg Ala Ile Asn Ile
35 40 45

Ala Ser Thr Ala His Asp Val Tyr Ser Phe Phe Lys Pro Lys His Lys
50 55 60

Lys Lys His
65

<210> 15
<211> 67
<212> PRT
<213> Manduca sexta

<400> 15

Met Lys Leu Thr Ser Leu Phe Ile Phe Val Ile Val Ala Leu Ser Leu
1 5 10 15

Leu Phe Ser Ser Thr Asp Ala Ala Pro Gly Lys Ile Pro Val Lys Ala
20 25 30

Ile Lys Gln Ala Gly Lys Val Ile Gly Lys Gly Leu Arg Ala Ile Asn
35 40 45

Ile Ala Gly Thr Thr His Asp Val Val Ser Phe Phe Arg Pro Lys Lys
50 55 60

Lys Lys His
65

<210> 16
<211> 66
<212> PRT
<213> Bombyx mori

<400> 16

Met Asn Ile Leu Lys Phe Phe Phe Val Phe Ile Val Ala Met Ser Leu
1 5 10 15

Val Ser Cys Ser Thr Ala Ala Pro Ala Lys Ile Pro Ile Lys Ala Ile
20 25 30

Lys Thr Val Gly Lys Ala Val Gly Lys Gly Leu Arg Ala Ile Asn Ile
35 40 45

Ala Ser Thr Ala Asn Asp Val Phe Asn Phe Leu Lys Pro Lys Lys Arg
50 55 60

Lys His
65

<210> 17
<211> 41
<212> PRT
<213> Heliothis virescens

<400> 17

Gly Lys Ile Pro Ile Gly Ala Ile Lys Lys Ala Gly Lys Ala Ile Gly
1 5 10 15

Lys Gly Leu Arg Ala Val Asn Ile Ala Ser Thr Ala His Asp Val Tyr
20 25 30

Thr Phe Phe Lys Pro Lys Lys Arg His
35 40

<210> 18
<211> 66
<212> PRT
<213> Bombyx mori

<400> 18

Met Tyr Phe Leu Lys Tyr Phe Ile Val Val Leu Val Ala Leu Ser Leu
1 5 10 15

Met Ile Cys Ser Gly Gln Ala Asp Pro Lys Ile Pro Val Lys Ser Leu
20 25 30

Lys Lys Gly Gly Lys Val Ile Ala Lys Gly Phe Lys Val Leu Thr Ala
35 40 45

Ala Gly Thr Ala His Glu Val Tyr Ser His Val Arg Asn Arg Gly Asn
50 55 60

Gln Gly
65

<210> 19
<211> 32
<212> PRT
<213> Galleria mellonella

<400> 19

Lys Val Asn Val Asn Ala Ile Lys Lys Gly Gly Lys Ala Ile Gly Lys
1 5 10 15

Gly Phe Lys Val Ile Ser Ala Ala Ser Thr Ala His Asp Val Tyr Glu
20 25 30

<210> 20
<211> 28
<212> PRT
<213> Galleria mellonella

<400> 20

Gly Gly Gln Ile Ile Gly Lys Ala Leu Arg Gly Ile Asn Ile Ala Ser
1 5 10 15

Thr Ala His Asp Ile Ile Ser Gln Phe Lys Pro Lys
20 25

<210> 21
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

<220>
<221> misc_feature
<222> (6)..(6)
<223> N = inosine

<220>
<221> misc_feature
<222> (12)..(12)
<223> N = inosine

<400> 21
aaygtnaayg cnathaaraa rgg 23

<210> 22
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

<220>
<221> misc_feature
<222> (7)..(7)
<223> N = inosine

<220>
<221> misc_feature
<222> (16)..(16)
<223> N = inosine

<220>
<221> misc_feature
<222> (19)..(19)
<223> N = A, C, G or T

<400> 22
ytcrtanacr gcrtgngcnt g 21

<210> 23
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

<220>
<221> misc_feature
<222> (3)..(3)
<223> N = inosine

<220>
<221> misc_feature
<222> (6)..(6)
<223> N = inosine

<220>
<221> misc_feature
<222> (18)..(18)
<223> N = inosine

<400> 23
ggnggncara thathggnaa rgc 23

<210> 24
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

<220>
<221> misc_feature
<222> (3)..(3)
<223> N = inosine

<220>
<221> misc_feature
<222> (5)..(5)
<223> N = inosine

<220>
<221> misc_feature
<222> (18)..(18)
<223> N = inosine

<220>
<221> misc_feature
<222> (21)..(21)
<223> N = A. C. G or T

<400> 24
tgnsndatda trtcrtgngc ngt 23

<210> 25
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

<400> 25
gaggaaaggc cataggaaaa gg 22

<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

<400> 26
actcgccgca ctgattac 18

<210> 27
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

<400> 27
gggggggcaga tcattggg 18

<210> 28
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide primer

<400> 28
ttatgtcatg ggccgtact 19

<210> 29
<211> 337
<212> DNA
<213> Galleria mellonella

<400> 29
ggtaacatct ttattagtta tcgtaaaata acagattgta gaaatgaagt ttacaggaat 60

attcttcata attatggcga tcattgccct ctttataggg tcaaatgaag cggcgcctaa 120

agtcaatgtt aatgccatta agaagggagg aaaggccata ggaaaaggat ttaaagtaat 180

cagtgcggcg agtacagcgc atgacgtcta tgaacacatt aaaaacagaa ggcactaata 240

aaaccaaaaa taattattta ttttataagg taattttaag acatataatg tatgttgcaa 300

attattaagt gaaataaaat ataaaatatt ttttgtt 337

<210> 30
<211> 32
<212> PRT
<213> Galleria mellonella

<400> 30

Lys Val Pro Ile Gly Ala Ile Lys Lys Gly Gly Lys Ile Ile Lys Lys
1 5 10 15

Gly Leu Gly Val Ile Gly Ala Ala Gly Thr Ala His Glu Val Tyr Ser
20 25 30

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide sequence

<220>
<221> misc_feature
<222> (3)..(3)
<223> N = A, C, G or T

<220>
<221> misc_feature
<222> (9)..(9)
<223> N = inosine

<220>
<221> misc_feature
<222> (12)..(12)
<223> N = inosine

<220>
<221> misc_feature
<222> (18)..(18)
<223> N = A, C, G or T

<400> 31
ccnaargtnc cnathggngc 20

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<220>
<221> misc_feature
<222> (3)..(3)
<223> N = A, C, G or T

<220>
<221> misc_feature
<222> (12)..(12)
<223> N = inosine

<220>
<221> misc_feature
<222> (18)..(18)
<223> N = A, C, G or T

<400> 32
tanacttcrt gngcdgtncc 20

<210> 33
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 33
aggtcttggt gtaattggtg 20

<210> 34
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Sequence

<400> 34
gcagcaccaa ttacaccaag 20

<210> 35
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Sequence

<400> 35
taaaaagggt ctaggtgtgc 20

<210> 36
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Sequence

<400> 36
gcggcgccaa gcacacctag 20

<210> 37
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 37
cttcaatctt agtgaaaact tcgc 24

<210> 38
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 38
ggatagtact tcataattat atac 24

<210> 39
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Sequence

<400> 39
gttgcaggac ttaatactta gtg 23

<210> 40
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Sequence

<400> 40
gagtatttta ctaataagta tgtgg 25

<210> 41
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 41
ctcgagaaca atgaagttta caggaatatt cttca 35

<210> 42
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 42
tctagattag tgccttctgt ttttaatgtg ttcatagac 39

<210> 43
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 43
cgccagagga cccctaaac 19

<210> 44
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 44
atcgatgcca gaaccaagag a 21

<210> 45
<211> 42
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 45
tcgaaggaga tgccaccatg aagtttacag gaatattctt ca 42

<210> 46
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Oligonucleotide Primer

<400> 46
ttagtgcctt ctgtttttaa tgtgttcata gac 33

<210> 47
<211> 63
<212> PRT
<213> Galleria mellonella

<400> 47

Met Lys Leu Thr Gly Leu Phe Phe Met Ile Met Ala Met Leu Ala Leu
1 5 10 15

Phe Val Gly Ala Gly Gln Ala Asp Pro Lys Val Pro Ile Gly Ala Ile
20 25 30

Lys Lys Gly Gly Lys Ile Ile Lys Lys Gly Leu Gly Val Ile Gly Ala
35 40 45

Ala Gly Thr Ala His Glu Val Tyr Ser His Val Lys Asn Arg His
50 55 60

<210> 48
<211> 38
<212> PRT
<213> Galleria mellonella

<400> 48

Lys Val Pro Ile Gly Ala Ile Lys Lys Gly Gly Lys Ile Ile Lys Lys
1 5 10 15

Gly Leu Gly Val Ile Gly Ala Ala Gly Thr Ala His Glu Val Tyr Ser
20 25 30

His Val Lys Asn Arg His
35

<210> 49
<211> 375
<212> DNA
<213> Galleria mellonella

<400> 49
gtaacagtac caccgtgtac agtcgcagta gttagtcttc aatcttagtg aaaacttcgc 60

ttctctttat caaccatgaa gctgaccggt ctatttttca tgatcatggc gatgctcgcc 120

ctgtttgttg gcgctggtca agccgaccct aaggtgccca ttggcgccat caagaagggt 180

ggcaaaatta ttaaaaaagg tcttggtgta attggtgccg ctggtacagc gcatgaagta 240

tatagccacg tcaagaacag gcattagatt cttgaagaat atatagtata taattatgaa 300

gtactatcct tttgtatatg tgactaagtg cataatgtaa agtcaaatga aatatatatt 360

atttatcctc gtgcc 375

<210> 50
<211> 192
<212> DNA
<213> Galleria mellonella

<400> 50
atgaagctga ccggtctatt tttcatgatc atggcgatgc tcgccctgtt tgttggcgct 60

ggtcaagccg accctaaggt gcccattggc gccatcaaga agggtggcaa aattattaaa 120

aaaggtcttg gtgtaattgg tgccgctggt acagcgcatg aagtatatag ccacgtcaag 180

aacaggcatt ag 192

<210> 51
<211> 117
<212> DNA
<213> Galleria mellonella

<400> 51
aaggtgccca ttggcgccat caagaagggt ggcaaaatta ttaaaaaagg tcttggtgta 60

attggtgccg ctggtacagc gcatgaagta tatagccacg tcaagaacag gcattag 117

<210> 52
<211> 63
<212> PRT
<213> Galleria mellonella

<400> 52

Met Lys Leu Thr Gly Leu Phe Leu Met Ile Met Ala Val Leu Ala Leu
1 5 10 15

Phe Val Gly Ala Gly Gln Ala Asp Pro Lys Val Pro Ile Gly Ala Ile
20 25 30

Lys Lys Gly Gly Lys Ile Ile Lys Lys Gly Leu Gly Val Leu Gly Ala
35 40 45

Ala Gly Thr Ala His Glu Val Tyr Asn His Val Arg Asn Arg Gln
50 55 60

<210> 53
<211> 38
<212> PRT
<213> Galleria mellonella

<400> 53

Lys Val Pro Ile Gly Ala Ile Lys Lys Gly Gly Lys Ile Ile Lys Lys
1 5 10 15

Gly Leu Gly Val Leu Gly Ala Ala Gly Thr Ala His Glu Val Tyr Asn
20 25 30

His Val Arg Asn Arg Gln
35

<210> 54
<211> 462
<212> DNA
<213> Galleria mellonella

<400> 54
acttcattgt gtacagttgc aggacttaat acttagtgaa ctacttactc ctcgttacca 60

accatgaagc tgaccggtct atttctcatg atcatggcgg tgctcgcgct gtttgttggc 120

gctggtcaag ccgaccctaa ggtgcccatt ggcgctatca agaagggcgg caaaattatt 180

aaaaagggtc taggtgtgct tggcgccgcg ggcacagcgc acgaagtgta caaccacgtt 240

aggaacaggc agtaacgtca tgcgtgattg ttgtacatac agtacttaca atacgatttg 300

tcttggctgt gatatatctt tagataaatt aatttataat accacatact tattagtaaa 360

atactcaaat atattgatta tagatacatt aataaatatt aattattaca atattttgtt 420

tttatgtaca atgcgaatag attctaccct ctgcctcgtg cc 462

<210> 55
<211> 192
<212> DNA
<213> Galleria mellonella

<400> 55
atgaagctga ccggtctatt tctcatgatc atggcggtgc tcgcgctgtt tgttggcgct 60

ggtcaagccg accctaaggt gcccattggc gctatcaaga agggcggcaa aattattaaa 120

aagggtctag gtgtgcttgg cgccgcgggc acagcgcacg aagtgtacaa ccacgttagg 180

aacaggcagt aa 192

<210> 56
<211> 117
<212> DNA
<213> Galleria mellonella

<400> 56
aaggtgccca ttggcgctat caagaagggc ggcaaaatta ttaaaaaggg tctaggtgtg 60

cttggcgccg cgggcacagc gcacgaagtg tacaaccacg ttaggaacag gcagtaa 117

<210> 57
<211> 67
<212> PRT
<213> Spodoptera exigua

<400> 57

Met Lys Leu Thr Lys Val Phe Val Ile Val Ile Val Val Val Ala Leu
1 5 10 15

Leu Val Pro Ser Glu Ala Ala Pro Gly Lys Ile Pro Val Lys Ala Ile
20 25 30

Lys Lys Ala Gly Thr Ala Ile Gly Lys Gly Leu Arg Ala Ile Asn Ile
35 40 45

Ala Ser Thr Ala His Asp Val Tyr Ser Phe Phe Lys Pro Lys His Lys
50 55 60

Lys Lys His
65

<210> 58
<211> 54
<212> PRT
<213> Hyblaea puera

<400> 58

Ala Met Ser Leu Val Ser Cys Ser Thr Ala Ala Pro Ala Lys Ile Pro
1 5 10 15

Ile Lys Ala Ile Lys Thr Val Gly Lys Ala Val Gly Lys Gly Leu Arg
20 25 30

Ala Ile Asn Ile Ala Ser Thr Ala Asn Asp Val Phe Asn Phe Leu Lys
35 40 45

Pro Lys Lys Arg Lys His
50

<210> 59
<211> 41
<212> PRT
<213> Caligo illioneus

<400> 59

Gly Lys Ile Pro Ile Asn Ala Ile Arg Lys Gly Ala Lys Ala Val Gly
1 5 10 15

His Gly Leu Arg Ala Leu Asn Ile Ala Ser Thr Ala His Asp Ile Ala
20 25 30

Ser Ala Phe His Arg Lys Arg Lys His
35 40

<210> 60
<211> 37
<212> PRT
<213> Caligo illioneus

<400> 60

Arg Lys Ile Pro Val Glu Ala Ile Lys Lys Gly Ala Ser Arg Ala Trp
1 5 10 15

Arg Ala Leu Asp Leu Ala Ser Thr Ala Tyr Asp Ile Ala Ser Ile Phe
20 25 30

Asn Arg Lys Arg Glu.
35

<210> 61
<211> 40
<212> PRT
<213> Caligo illioneus

<400> 61

Gly Lys Ile Pro Val Glu Ala Leu Lys Lys Gly Ala Lys Val Ala Gly
1 5 10 15

Arg Ala Trp Arg Ala Leu Asp Leu Ala Ser Thr Ala Tyr Asp Ile Ala
20 25 30

His Leu Phe Asp Arg Lys Arg Asn
35 40

<210> 62
<211> 43
<212> PRT
<213> Artificial Sequence

<220>
<223> Consensus sequence for Galleria peptides

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Xaa = GLY, PRO, ALA or ABSENT, or more preferably GLY or ABSENT

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Xaa = ILE, VAL, ALA, LEU, MET or PHE, or more preferably ILE or VAL

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> Xaa = PRO, GLY, ASN, GLN or HIS, or more preferably PRO or ASN

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> Xaa = ILE, VAL, ALA, LEU, MET or PHE, or more preferably ILE or VAL

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> Xaa = LYS, ARG, GLY, PRO, ALA, ASN, GLN or HIS, or more preferably LYS, GLY or ASN

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> Xaa = GLN, ASN, HIS, LYS or ARG, or more preferably GLN or LYS

<220>
<221> MISC_FEATURE
<222> (14)..(14)
<223> Xaa = ILE, VAL, ALA, LEU or GLY, or more preferably ILE or ALA

<220>
<221> MISC_FEATURE
<222> (16)..(16)
<223> Xaa = GLY, PRO, ALA, LYS or ARG, or more preferably GLY or LYS

<220>
<221> MISC_FEATURE
<222> (18)..(18)
<223> Xaa = VAL, LEU, ILE, GLY, PRO or ALA, or more preferably ALA or GLY

<220>
<221> MISC_FEATURE
<222> (19)..(19)
<223> Xaa = ILE, VAL, MET, ALA, PHE or LEU, or more preferably LEU or PHE

<220>
<221> MISC_FEATURE
<222> (20)..(20)
<223> Xaa = ARG, LYS, GLY, PRO or ALA, or more preferably ARG, GLY or LYS

<220>
<221> MISC_FEATURE
<222> (21)..(21)
<223> Xaa = GLY, PRO, ALA, VAL, ILE, LEU, MET or PHE, or more preferably GLY or VAL

<220>
<221> MISC_FEATURE
<222> (22)..(22)
<223> Xaa = ILE, LEU, VAL, ALA, MET or PHE, or more preferably VAL, ILE or LEU

<220>
<221> MISC_FEATURE
<222> (23)..(23)
<223> Xaa = ASN, GLN, HIS, GLY, PRO, ALA, SER or THR, or more preferably ASN, GLY or SER

<220>
<221> MISC_FEATURE
<222> (24)..(24)
<223> Xaa = ILE, VAL, ALA, LEU or GLY, or more preferably ILE or ALA

<220>
<221> MISC_FEATURE
<222> (26)..(26)
<223> Xaa = SER, THR, GLY, PRO or ALA, or more preferably SER or GLY

<220>
<221> MISC_FEATURE
<222> (30)..(30)
<223> Xaa = ASP or GLU

<220>
<221> MISC_FEATURE
<222> (31)..(31)
<223> Xaa = ILE, LEU, VAL, ALA, MET or PHE, or more preferably ILE or VAL

<220>
<221> MISC_FEATURE
<222> (32)..(32)
<223> Xaa = ILE, LEU, VAL, ALA, TYR, TRP or PHE, or more preferably ILE or TYR

<220>
<221> MISC_FEATURE
<222> (33)..(33)
<223> Xaa = SER, THR, ASN, GLN, HIS, GLU or ASP, or more preferably SER, ASN or GLU

<220>
<221> MISC_FEATURE
<222> (34)..(34)
<223> Xaa = GLN, ASN or HIS, or more preferably GLN or HIS

<220>
<221> MISC_FEATURE
<222> (35)..(35)
<223> Xaa = PHE, LEU, VAL, ALA, ILE or MET, or more preferably PHE, VAL or ILE

<220>
<221> MISC_FEATURE
<222> (36)..(36)
<223> Xaa = LYS or ARG

<220>
<221> MISC_FEATURE
<222> (37)..(37)
<223> Xaa = PRO, GLY, ASN, GLN or HIS, or more preferably PRO or ASN

<220>
<221> MISC_FEATURE
<222> (38)..(38)
<223> Xaa = LYS or ARG

<220>
<221> MISC_FEATURE
<222> (39)..(39)
<223> Xaa = LYS, ARG, HIS, ASN or GLN, or more preferably LYS, HIS, GLN or ARG

<220>
<221> MISC_FEATURE
<222> (40)..(40)
<223> Xaa = LYS, ARG, HIS, ASN, GLN or ABSENT, or more preferably LYS, HIS or ABSENT

<220>
<221> MISC_FEATURE
<222> (41)..(41)
<223> Xaa = LYS, ARG or ABSENT, or more preferably LYS or ABSENT

<220>
<221> MISC_FEATURE
<222> (42)..(42)
<223> Xaa = ASN, GLN, HIS or ABSENT, or more preferably ASN or ABSENT

<220>
<221> MISC_FEATURE
<222> (43)..(43)
<223> Xaa = HIS, ASN, GLN or ABSENT, or more preferably HIS or ABSENT

<400> 62

Xaa Lys Xaa Xaa Xaa Xaa Ala Ile Lys Lys Gly Gly Xaa Xaa Ile Xaa
1 5 10 15

Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Thr Ala His Xaa Xaa Xaa
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
35 40